Signature

Date

12 March 2004

PTO/SB/05 (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
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UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No.	ARL 03-56		
First Inventor	Kwong-Kit Choi		
Title	Systems Involving Voltage		

(Only for new nonprovisional applications under 37 CER 1 53(b))

	Express Mail Label No.
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 36] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS
4. Drawing(s) (35 U.S.C. 113) [Total Sheets] 5. Oath or Declaration [Total Sheets] 6. Declaration [Total Sheets] 7. Oath or Declaration [Total Sheets] 8. Newly executed (original or copy) 9. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) 10. Deletion Of Inventor(s) 11. Signed statement attached deleting inventor(s) 11. Newly executed (original or copy) 12. Deletion Of Inventor(s) 13. Signed statement attached deleting inventor(s) 14. Application Data Sheet. See 37 CFR 1.76 15. If a CONTINUING APPLICATION, check appropriate box, and suppose the second or copy)	Assignment Papers (cover sheet & document(s)) 37 CFR 3.73(b) Statement (when there is an assignee) 11.
Continuation Continuation Divisional Continuation Divisional Continuation Examiner For CONTINUATION OF DIVISIONAL APPS only: The entire disclosure of the	7 CFR 1.76: tion-in-part (CIP) of prior application No.:
5b, is considered a part of the disclosure of the accompanying continuation The incorporation <u>can only</u> be relied upon when a portion has been inadvert	or divisional application and is hereby incorporated by reference. ently omitted from the submitted application parts.
19. CORRESPOND	DENCE ADDRESS
Customer Number: 37064	OR Correspondence address below
Name	
Address	
City	State Zip Code
Country Te	elephone Fax
Name (Print/Type) William V. Adams	Registration No. (Attorney/Agent) 32,552

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. 'Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$)	1046
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espond to a collection of information unless it displays a valid OMB control number.			
Complete if Known			
Application Number			
Filing Date			
First Named Inventor	Kwong-Kit Choi		
Examiner Name	Not Yet Assigned		
Art Unit	Not Yet Assigned		
Attorney Docket No.	ABL 03-56		

PTO/SB/17 (10-03)

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)			
Check Credit card Money Other None	3. ADDITIONAL FEES			
Deposit Account:	Large Entity , Small Entity			
Denosit	Fee Fee Fee Fee Description Code (\$)	'aa Daid		
Account Number 19-2201	1051 130 2051 65 Surcharge - late filing fee or oath	ee Paid		
Deposit Account U.S.Army Materiel Command	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet			
Name The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification			
Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination			
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action			
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action			
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month			
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month			
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month			
Fee Fee Fee Fee Paid Code (\$) Code (\$)	1254 1,480 2254 740 Extension for reply within fourth month			
1001 770 2001 385 Utility filing fee	1 1255 2,010 2255 1,005 Extension for reply within fifth month			
1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal			
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal			
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing			
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding			
SUBTOTAL (1) (\$) 770	1452 110 2452 55 Petition to revive - unavoidable			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional			
Fee from	1501 1,330 2501 665 Utility issue fee (or reissue)			
Extra Claims below Fee Paid Total Claims 21 -20** = 1 x 18 = 18	1502 480 2502 240 Design issue fee			
Independent 6 2xx 3 V 86 359	1503 640 2503 320 Plant issue fee			
Claims 5 - 3 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	1460 130 1460 130 Petitions to the Commissioner			
Large Entity Small Entity	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)			
Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt			
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021 40 8021 40 Recording each patent assignment per property (times number of properties)			
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))			
1203 290 2203 145 Multiple dependent claim, if not paid	1810 770 2810 385 For each additional invention to be			
1204 86 2204 43 ** Reissue independent claims over original patent	examined (37 CFR 1.129(b)) 1801 770 2801 385 Request for Continued Examination (RCE)			
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application			
	Other fee (specify)			
SUBTOTAL (2) (\$) 276 **or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	一		
or number previously paid, if greater, i or relisades, see above	1 000101AE (0) (4)			

SUBMITTED BY

Name (Print/Type)

William V. Adams

Registration No. (Attorney/Agent)

Signature

(Complete (if applicable))

Telephone 703 806-8255

Date 12 March 2004

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NONPUBLICATION REQUEST	Γ
UNDER	
35 U.S.C. 122(b)(2)(B)(i)	

First Named Inventor		Kwong-Kit Choi		
Title YSTEMS INVOLVING VOLTAGE-TUNABLE QUANTUM-WELL INFRARED PHOTODETECTORS (QWIPs) AND RELATED METHODS				
Attorney Docket Numbe	г	ARL 03-56		

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

Date
Signature

(703) 806-8255
Telephone number

William V. Adams
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.